

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

**Automobilismo.** — Un studio del conditiones de circulation automobilari super le autostratas in le vicinitate de Washington ha revelate que compacte (o micre) automobiles in motion non require minus spatio que grandes. Sed si le circulation automobilari non es accelerate appreciabilemente per le moda del micro-autos, le problema del parcamiento in le urbes es certo simplicitate per illo.

**Biochimia.** — Duo chimistas switze (de Zurich e Basel) ha succedite in synthetisar ACTH (hormon adrenocorticotropic) que include in su molecula 39 amino-acidos. Un synthese partial de iste hormon, coperiente le prime 20 amino-acidos e assi le principio active de illo, esseva complite in 1960 in le Statos Unite (al Universitate Pittsburgh). Le successo switze es theoricamente e tecnicamente importantissime sed pare haber nulle signification immediate practica. Le ACTH de origine animal que es currentemente obtenibile a base commercial es enormemente plus incostose que su rival synthetic.

**Chimia.** — Un specie de "stenographia chemic" ha essite proponite per Dr. E. Baltazzi de Chicago. Le systema introduce circa 100 nove symbolos — multes pictorial e ergo de signification auto-evidente — con le function de "indicar" plus tosto que "describer" processos e manipulationes laboratorial. Dr. Baltazzi insiste que su systema es rapide e clar e ha le avantage que illo es "legibile" in non importa qual lingua sin le necessitate de un traduction verbal.

**Mathematica.** — Le statounitese Administration National de Aero e Cosmonautica (NASA) possede 118 computatores digital. Solmente septe del 118 es requirite pro objectivos administrative. Le alteres servi objectivos de ricerca scientific e technologic. Sin computatores electronic le scientia e le technologia de nostre dies es imaginabile tanto paucio como le vita del homine sin nervos in le corpore human.

**Physica.** — Il existe radios cosmic que pote penetrar in un massa de plumbo usque a un profundor de plus que 300 metros. Radios luminari, per contrasto, es arrestate per un folio de papiro.

**Physiologia.** — Le nucleo del cellula in le normal corpore human porta 46 chromosomas. Multe defectos genetic es associate con anormalitates chromosomic e pote esser diagnosticate a base de illos. Tamen, secundo Dr. D. G. Harnden de Edinburgh in Scotia, cellulas individual es non infrequentemente in possession de 45 o 47 chromosomas sin que le subjecto-donator es anormal in ulle senso del termino. Ab isto Dr. Harnden conclude que pro establir un anormalitate chromosomal, al minus 30 e preferibilemente 100 cellulas debe esser studiate.

**Psychologia.** — Un apparatus encephalographic (que registra undas cerebral) esseva construite al Universitate California a Los Angeles con le characteristics special (1) que su electrodos non require un directe contacto con le pelle del cranio (de maniera que illo pote esser usate sin rasar le capite del subjecto) e (2) que illo es si compacte que illo pote facilmente esser placiato in le casco de un astronauta sin impedir le mobilitate de ille. Le apparatus es advantageous pro studios del undas cerebral de aero- e cosmopilotas in volo, sed illo etiam promitte reimplaciar le plus pesante modellos de encephalographo que es currentemente usate in investigationes psychiatric e medical.

**Psychologia Animal.** — Juvene simias — como lor equivalentes human — suge lor digitos quando illos ha fame. Simias cessa suger digitos al etate de approximativemente sex menses. Si fame es le motivation initial del suger, le habitude continua — tanto in simias como in humanos — pro plus complexe rationes de natura psychologic. Iste rationes es currentemente sub investigation experimental — in simias — al Universitate Wisconsin.

**Technologia.** — Le Station Experimental Anti-Incendiari del Stato de Michigan ha perfectionate un motorisate machina que excava usque a quasi quatro metros cubic de arena per minuta e lancea lo a un distantia maximal de 30 metros. Le arena extingue o al minus attenua focos de forresta multo efficacemente. Le machina ha un peso de quasi 7.000 libras. In su forma experimental su mobilitate es restringite a duo kilometros per hora.

• Science News Letter, 84:68 Aug. 3, 1963

## Questions

**BIOLOGY**—How might *Littorina littorea* have reached Halifax? p. 73.

**ENTOMOLOGY**—Where is the black-legged tick primarily found? p. 66.

**GENERAL SCIENCE**—What is the concept of "one big library"? p. 70.

**GENETICS**—How does RNA affect the DNA molecules? p. 67.

**METEOROLOGY**—In what decade did the United States suffer the most severe heat waves? p. 72.

**TECHNOLOGY**—How will the car of tomorrow save fuel? p. 77.

## SCIENCE NEWS LETTER

VOL. 84 AUG. 3, 1963 NO. 5

Edited by WATSON DAVIS

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington, D. C., 20036, North 7-2255. Cable Address: SCIENSERV.

Subscription rates: 1 yr., \$5.50; 2 yrs., \$10.00; 3 yrs., \$14.50; ten or more copies in one package to one address, 7½ cents per copy per week; single copy, 15 cents, more than six months old, 25 cents. No charge for foreign postage. Change of address: Three weeks notice is required. Please state exactly how magazine is addressed. Include postal zone number.

Copyright © 1963 by Science Service, Inc. Reproduction of any portion of SCIENCE NEWS LETTER is strictly prohibited. Newspapers, magazines and other publications are invited to avail themselves of the numerous syndicated services issued by Science Service. Science Service also produces and distributes THINGS of science (monthly), produces and publishes books, and conducts the National Science Youth Program.

Printed in U.S.A. Second class postage paid at Washington, D. C. Established in mimeograph form March 13, 1922. Title registered as trademark, U.S. and Canadian Patent Offices. Indexed in Reader's Guide to Periodical Literature, Abridged Guide, and the Engineering Index. Member of Audit Bureau of Circulation.



## SCIENCE SERVICE

The Institution for the Popularization of Science organized 1921 as a non-profit corporation.

Board of Trustees—Nominated by the American Association for the Advancement of Science: William W. Rubey, University of California at Los Angeles; Wallace R. Brode, Washington, D. C. (Treasurer); Douglas Whitaker, Rockefeller Institute for Medical Research. Nominated by the National Academy of Sciences: Harlow Shapley, Harvard College Observatory; Philip Bard, Johns Hopkins University; Henry Allen Moe, John Simon Guggenheim Memorial Foundation. Nominated by the National Research Council: Leonard Carmichael, Smithsonian Institution (President); John R. Dunning, Columbia University; Benjamin H. Willier, Johns Hopkins University. Nominated by the Journalistic Profession: Gordon B. Fister, Allentown (Pa.) Call-Chronicle; O. W. Riegel, Washington and Lee University; Ralph B. Curry, Flint Journal. Nominated by the Scripps Estate: Edward J. Meeman, Memphis Press-Scimitar; Ludwell Denny, Washington, D. C.; Charles E. Scripps, Cincinnati, Ohio (Vice President and Chairman of Executive Committee).

Staff—Director: Watson Davis. Assistant Director: Dorothy Schriver. Writers: Ann Ewing, Elizabeth Hall, Faye Marley, Elizabeth Mirel, Barbara Tufty, Judith Viorst, Walter Wingo, Ruby Yoshioka. Science Youth Division: Joseph H. Kraus, Leslie V. Watkins. Photography: Fremont Davis. Production: Priscilla Howe, Marcia Nelson. Conferences: Forrest L. Snakenberg. Librarian: Margit Friedrich. Interlingua Division in New York: Alexander Gode, 80 E. 11th St., GRamercy 3-5410. Advertising Manager: Fred A. Moulton, MEtropolitan 8-2562, Washington, D. C.